

X-RAY IMAGE DETECTOR

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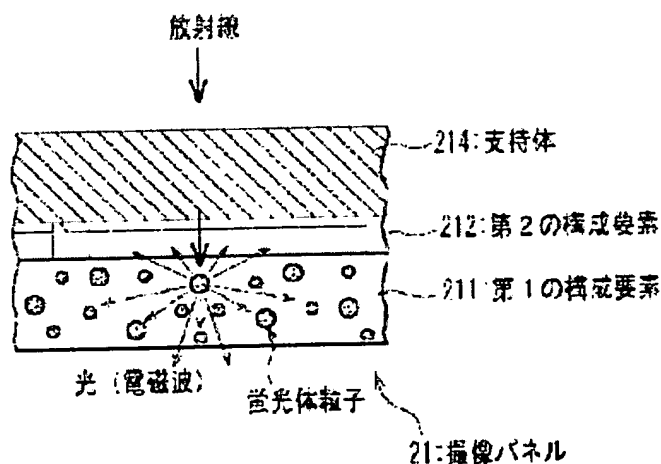
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Abstract of JP2003060181

PROBLEM TO BE SOLVED: To provide an inexpensive light-weight x-ray image detector that can obtain high-quality digital x-ray images.

SOLUTION: A first component 211 which outputs light, in accordance with the intensity of incident radiation, a second component 212 which converts the light outputted from the component 211 into electric energy and outputs a signal based on the obtained electric energy, and a support body 214 which is constituted of a resin and holds the components 211 and 212 are set up in the order of the support body 214, second component 212, and first component 211 in the direction of incidence of the radiation. The first component 211 is formed by using a cesium iodide or gadolinium oxysulfide. The second component 212 is formed, by mixing fullerene or carbon nanotubes in a photoconductive high-molecular organic compound and, at the same time, by using an organic semiconductor or an element having a split silicon-laminated structure.

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